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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

**“जानने का अधिकार, जीने का अधिकार”**

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

**“पुराने को छोड़ नये के तरफ”**

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7109 (1973): Starter, Staple, Orthopaedic [MHD 2:  
Orthopaedic Instruments, Implants and Accessories]

**“ज्ञान से एक नये भारत का निर्माण”**

Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



**“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”**

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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*Indian Standard*  
**SPECIFICATION FOR  
STARTER, STAPLE, ORTHOPAEDIC**

**1. Scope** — Specifies dimensions and other requirements for staple starter used for guiding the staples in the bone.

**2. Material** — Stainless steel bars conforming to Designation 40cr13 or 30cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

**3. Shape and Dimensions** — As shown in Fig. 1.

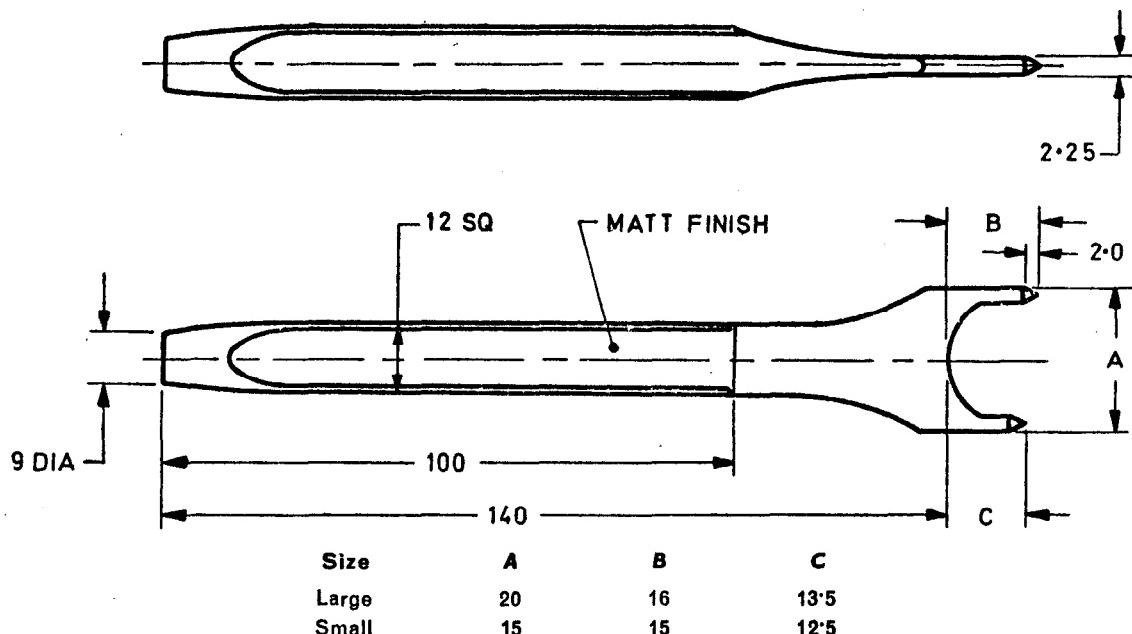


FIG. 1 STARTER, STAPLE, ORTHOPAEDIC

**4. Heat Treatment** — The starter shall be hardened and tempered to 450 to 500 HV.

**5. Workmanship and Finish**

**5.1** The starter shall have the pointed ends for making dent in the bone, as shown in Fig. 1.

**5.2** It shall be free from pits, burs, draw-marks, cracks and other surface contaminations.

**5.3** It shall be passivated and polished bright. The handle shall have matt finish.

**6. Test**

**6.1 Corrosion Resistance Test** — Scrub the instrument with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the instrument, immerse in copper sulphate solution at room temperature for 6 minutes and wash with fresh water or wet cotton wool.

The copper sulphate solution shall be made up as follows:

Copper sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	4.0 g
Sulphuric acid ( $\text{H}_2\text{SO}_4$ ) (sp gr 1.84)	10.0 g
Distilled water [ see IS : 1070-1960 Specification for water, distilled quality (revised) ]	90.0 ml

There shall be no red stains or spots on the instrument, but dulling of the polished surface may be permitted.

**7. Marking** — The starter shall be marked with manufacturer's name, initials or recognized trade-mark.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — As agreed to between the purchaser and the supplier.